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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-04-11** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in 13th and 14th Cross in Prasanth nagar in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri. Gnanendra Murthy MD, No. 410, Balaji Nilaya, 5th Main road, 4th Cross, Kengeri Satelilte Town, Bangalore-560060
Customer's Reference	:	EE/DD/WO/333/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-18
Sample ID No	:	2018-04-04-11 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	_
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-04-11** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in 13th and 14th Cross in Prasanth nagar in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri. Gnanendra Murthy MD, No. 410, Balaji Nilaya, 5th Main road, 4th Cross, Kengeri Satelilte Town, Bangalore-560060
Customer's Reference	:	EE/DD/WO/333/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-04-18
Sample ID No	:	2018-04-04-11 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	6547	6761	45.1	54.9	30-70
4	10 mm	5375	12136	80.9	19.1	10-35
5	4.75 mm	2584	14720	98.1	1.9	0-5
6	Pan	280	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-04-11** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in 13th and 14th Cross in Prasanth nagar in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri. Gnanendra Murthy MD, No. 410, Balaji Nilaya, 5th Main road, 4th Cross, Kengeri Satelilte Town, Bangalore-560060
Customer Reference	:	EE/DD/WO/333/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-18
Sample ID No	:	2018-04-04-11 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
	40 mm	0	0	0	100	100
2	20 mm	221	221	4.4	95.6	90-100
3	10 mm	3015	3236	64.7	35.3	25-55
4	4.75 mm	1575	4811	96.2	3.8	0-10
5	Pan	189	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-04-04-11** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in 13th and 14th Cross in Prasanth nagar in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri. Gnanendra Murthy MD, No. 410, Balaji Nilaya, 5th Main road, 4th Cross, Kengeri Satelilte Town, Bangalore-560060
Customer's Reference	:	EE/DD/WO/333/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-18
Sample ID No	:	2018-04-04-11 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-04-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	11	11	1.1	98.9	90-100	90-100	90-100	95-100
3	2.36 mm	132	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	202	345	34.5	65.5	30-70	55-90	75-100	90-100
5	600 micron	159	504	50.4	49.6	15-34	35-59	60-79	80-100
6	300 micron	232	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	178	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-04-04-11** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in 13th and 14th Cross in Prasanth nagar in Ward No.13, Shettyhalli Sub Division.
Agency	:	Sri. Gnanendra Murthy MD, No. 410, Balaji Nilaya, 5th Main road, 4th Cross, Kengeri Satelilte Town, Bangalore-560060
Customer's Reference	:	EE/DD/WO/333/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-18
Sample ID No	:	2018-04-04-11 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	532	648	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	549	682	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	577	83	20.0%	Satisfactory	Satisfactory

Note:
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End of Report

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-14-11** **Date: 18/04/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains in 13th and 14th Cross in Prasanth nagar in Ward No.13, Shettyhalli Sub Division.

Agency : Sri. Gnanendra Murthy MD, No. 410, Balaji Nilaya, 5th Main road, 4th Cross, Kengeri Satelilte Town, Bangalore-560060

Customer's Reference : EE/DD/WO/333/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-04-18

Sample ID No : 2018-04-14-11 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	11/04/2018	18/04/2018	151.24 X 149.63 X 150.22	22630	8.201	411.9	18.2	18.1
2	Drain Concrete	M20	11/04/2018	18/04/2018	151.36 X 149.78 X 151.04	22671	8.163	401.3	17.7	
3	Drain Concrete	M20	11/04/2018	18/04/2018	151.02 X 149.74 X 151.52	22614	8.147	416.1	18.4	

Note:
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